

Notice of Allowability

Application No.

10/777,570

Applicant(s)

OBERLAENDER ET AL.

Examiner

Tuan V. Thai

Art Unit

2186

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 12/08/2006.
2. ☒ The allowed claim(s) is/are 1-3, 5-18 and 20-22 renumbered as 1-7, 9-11, 13, 8, 14-15, 12, 16-18, 20 and 19 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

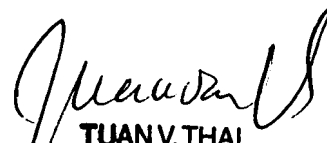
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


TUAN V. THAI
PRIMARY EXAMINER
6/20/2007

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Attorney's Docket No.: 14303.0070

**IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE**

In re application of: Oberlaender et al. **Group:** 2186

Serial No.: 10/777,570 **Examiner:** Tuan Thai

For: ***FAST UNALIGNED MEMORY ACCESS SYSTEM AND METHOD.***

1. This action is responsive to communication filed June 13, 2007. Claims 1-3, 5-18 and 20-22 are now allowed. Claims 4 and 19 have been canceled.

REASONS FOR ALLOWANCE

2. The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach nor suggest, *either alone or in combination*, **all** the limitations of the amended claims of the current invention (claims 1, 17 and 21). The discussion of the reasons for allowance shall be directed to claim 1 in which the Examiner shall designate as the primary invention in this application; however, the reasons for allowance will also apply to other indicated independent claims (claims 17 and 21). Particularly, the prior arts of record do not teach nor

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suggest all the combined limitations in each claim separately including method for accessing a memory system having plurality of memory towers and a microprocessor system comprises an address generator configured to simultaneously generate a first memory address and a second memory address, wherein the address generator comprises a first adder configured to generate the first memory address, and a second adder configured to generate the second memory address; a memory system having a first memory tower and a second memory tower; and an address selector coupled to receive the first memory address and the second memory address and configured to select a first row address for the first memory tower and a second row address for the second memory tower. Similarly for claims 17 and 21. In light of the foregoing, claims 1, 17 and 21 of the present application are found to be patentable over the prior arts.

Claims 2-3, 5-16, 18, 20 and 22 further limit the allowable independent claims 1 and 17. These claims are therefore allowable for the same reason as set forth above.

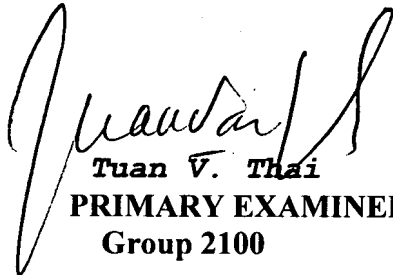
Any comments considered necessary by Applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 3:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TVT/July 01, 2007


Tuan V. Thai
PRIMARY EXAMINER
Group 2100